s are: Mr. John Larson, Mr. Dan Carson, n Klein, Mr. Gary Prange and Mr. Joe

n February 16, Brothers Wayne Specht ntander Ripoll received their degrees in al Engineering and parted with the Frat- o take their places in the business world. ne in the fraternity will miss them, but irit and contributions will never be for-

appa would like to take this time to thank se who attended our open party on Feb- . The party was a success and everyone to enjoy the abundance of the opposite

or the spring term, activities have seemed ase to a mild frenzy. Elections are now eld for the spring and summer term, but f the work was in the preparation for St. ndidate, "Mr. Ken McPinter." Although s it has been trying, for St. Pat's he was sing "When Irish Eyes are Smiling" in a Irish tenor voice, know all the legends of ishees and leprechaun, and drink Irish like a wounded rebel. A poster party d March 2 for the purpose of presenting MSOE public the image of our candidate. r, like all the other candidates today, he s not running for the primaries.

or enjoyment and a pause from the hectic ppa has been having a few social functions. ing and Saturday night get-togethers have ne main source of enjoyment. For the ve are looking forward to Founder's Day, Kappa Eta Kappa's eleventh anniversary. Chapters will get together for a dinner Sun Prairie, Wisconsin.

oon Kappa Eta Kappa is going to unravel project that we have been busy planning rooms of Kappa's basement catacombs. ve receive the OK from the Kappa top ve'll be able to publish it, but for now can say is: Keep your eyes open for the

There are many man made laws that are disobeyed, either accidentally, or intentionally because some people feel that they are unfair. However, every day we obey the fundamental laws of nature, whether it pleases us or not.

Ranked along with the law of conservation of energy and the law of gravity are those rules which those engaged in experimental work have followed since the beginning of time.

These basic laws of experiment have been correlated and divided into a listing known as Finagle's Laws. Finagle is already known for his work in the interpretation of lab data (a summary of which appeared in the November 16, 1967 issue of the "MACE").

Some of Finagle's laws, namely the Laws of Mathematics, are equally applicable to problem solving. As I look through Dr. Finagle's notes, I am certain that the following laws are the most important and are basic to all phenomena encountered in engineering.

Laws of Experiment

- If anything can go wrong with an experiment, or test, it will.

Second Law

- Everything goes wrong at one time.

Third Law

- Experiments must be reproduceable; they should fail in the same way.

Fourth Law

- No matter how an experiment or test proceeds, someone will misinterpret the results.

- Corollary One - No matter what results are anticipated, someone will try to fake them.

Laws of Mathematics

First Law

- In any collection of numbers, the figures that are obviously correct, beyond all need on checking, contain the errors.

- Corollary One - No one whom you ask for help will see the errors.

- Corollary Two - Everyone who stops by with unsought advice will see them immediately.

Second Law

- If, in any problem, you find yourself doing a "transfinite" amount of work, the answer can be obtained by inspection.

Laws of the Universal Perversity of Matter

First Law

- Any mechanical or electrical device is most likely to fail the day after the manufacturer's guarantee expires.

Second Law

- Any mechanical or electrical device with any malfunction short of a complete breakdown will function perfectly in the presence of a trained serviceman.

Third Law

- Matter will damage in direct proportion to its value.

- Corollary One - If a mechansim is accidentally dropped, it will fall in such a way that the maximum damage will occur.

- Corollary Two - Things fall at right angles.

Dr. Finagle's last entry is one that is most valuable to those of us who find time is at a premium.

- In simple cases, presenting one obvious right way versus one obvious wrong way, it is often wiser to choose the wrong way to expedite subsequent revisions.

MSOE OPEN HOUSE – APR. 20

Details In Next Issue

WIFE COOKS IN SHADOW

CHOOL BETTER LIT THAN HOME

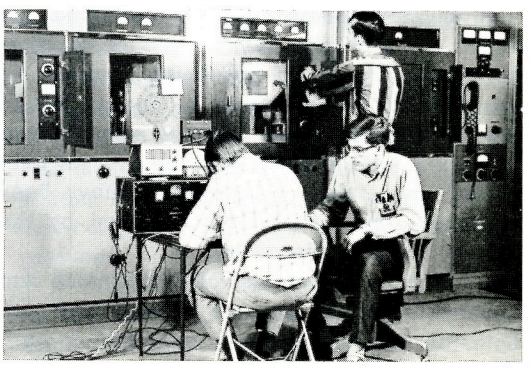
(Special to the MACE)

you see a rather preoccupied student ng around the dorm or in a class room a small shiny, black instrument in f him at a rather odd angle, do not that he is "cracking up." More he is making a lighting survey for y's Illumination class EE 390. The 's first project was a survey of his ighting, and the general pattern of eadings that are shown on home floor give some interesting results. The t is that most students are engaging r household tasks under very inadequate lighting levels. If the student is married, his wife moves around at night in a poorly lit kitchen and washes dishes at a sink or cooks over a stove, usually standing in her own shadow and unable to see properly the delicious food that she is so tenderly preparing for her hungry husband.

The living room is not much better. Papa reads the evening paper by a small pool of light that is thrown at the wrong angle from a stylish but inadequate floor lamp while the kids crawl around on the floor and get tangled in the floor lamp cords. The low lighting levels around the room make it ideal for the children's games of hide and seek but not for reading or playing with toys or card games. Later on, papa, on the way to bed, stumbles over the kid's toys.

When the student tries to shave in the morning, the chances are that all he gets is a stiff neck, an uneven beard and a frustrated feeling. Most bath room mirror luminaires direct most of the light into the eye. If he drives to school, his super-duper sports car with lots of shiny chrome also reflects the sun light into his eyes so that he narrowly misses a pedestrian.

Arriving at school he does find most of the labs, class rooms and study areas to be adequately lighted; often to ten or twenty times the home lighting levels. Question. Why does he put up with home lighting levels that he would consider grossly inadequate at school or work?



W9HHX at Work Participating in 160 Meter Proficiency Contest last month.